

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P457422

Luminaire Tested: **GLAN-SA8D-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55686 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

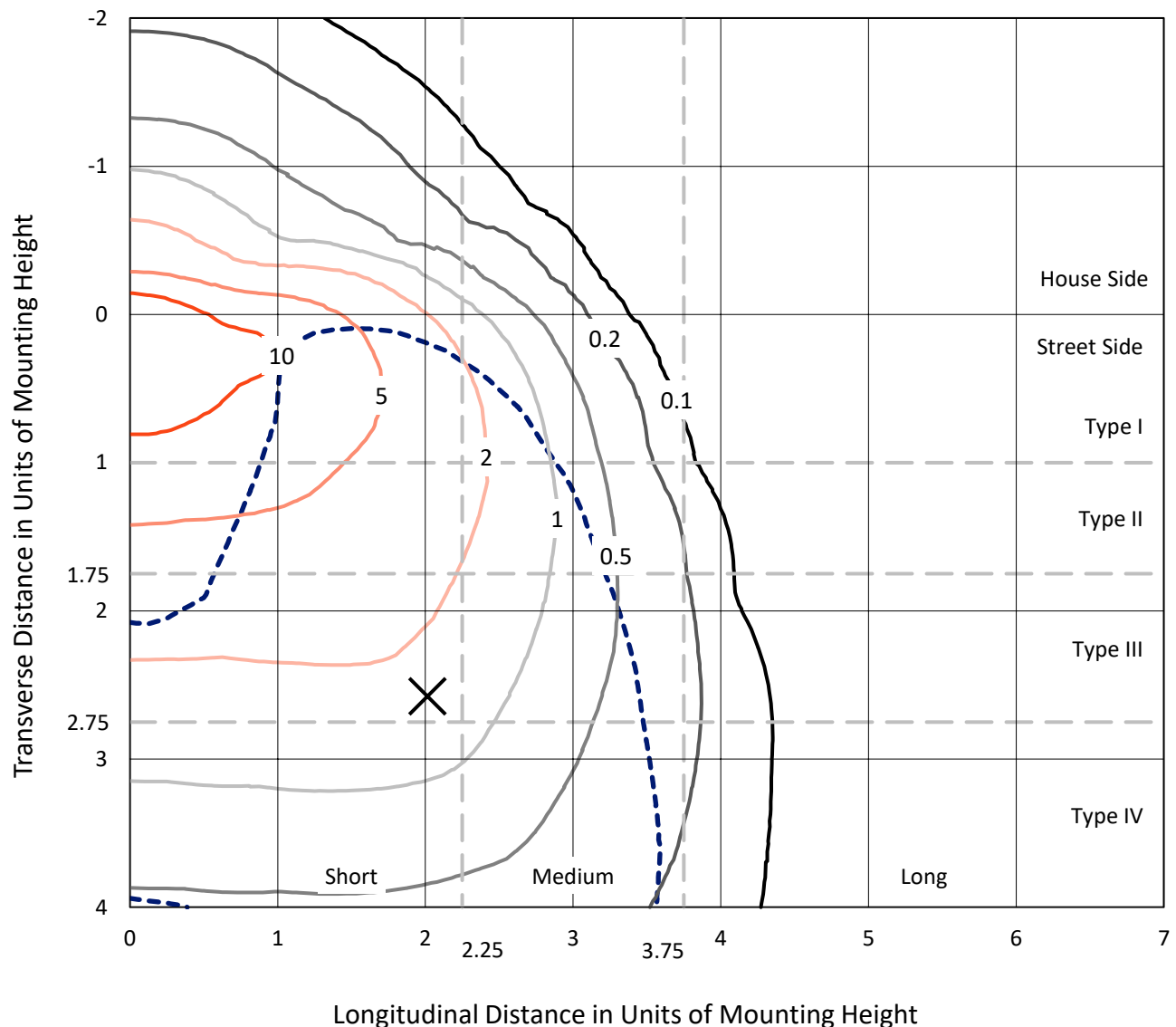


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



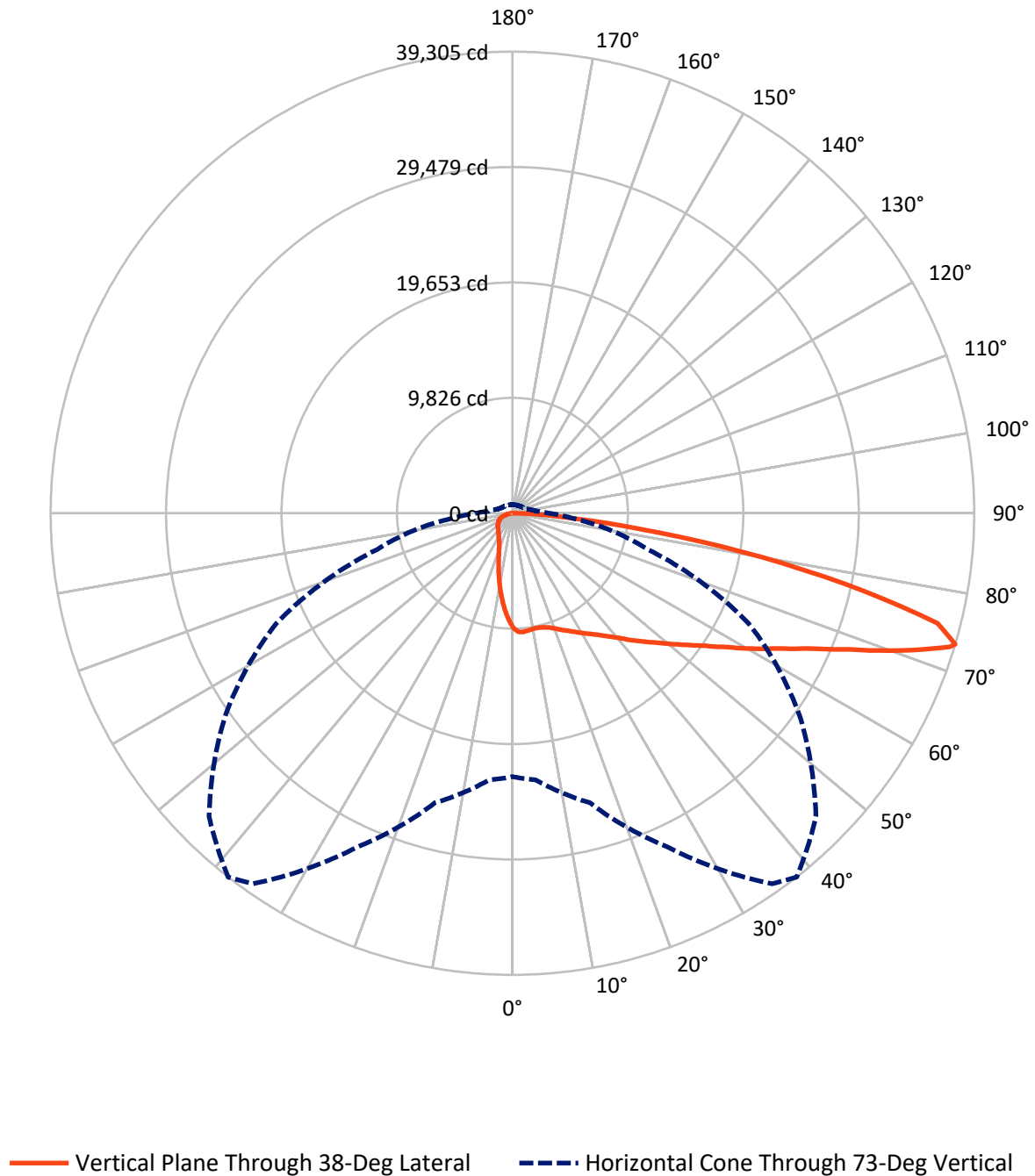
Based on 25 foot mounting height. Maximum calculated value = 16 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7485.9   | 0.0    | 7485.9  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 48200.1  | 0.0    | 48200.1 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 55686.0  | 0.0    | 55686.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 853.9   | 1.5       |
| 10°-20°   | 2189.8  | 3.9       |
| 20°-30°   | 3410.0  | 6.1       |
| 30°-40°   | 5001.6  | 9.0       |
| 40°-50°   | 7419.4  | 13.3      |
| 50°-60°   | 10511.8 | 18.9      |
| 60°-70°   | 13334.5 | 23.9      |
| 70°-80°   | 11100.0 | 19.9      |
| 80°-90°   | 1865.0  | 3.3       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 55686.0 | 100.0     |
| 0°-180°   | 55686.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P457422

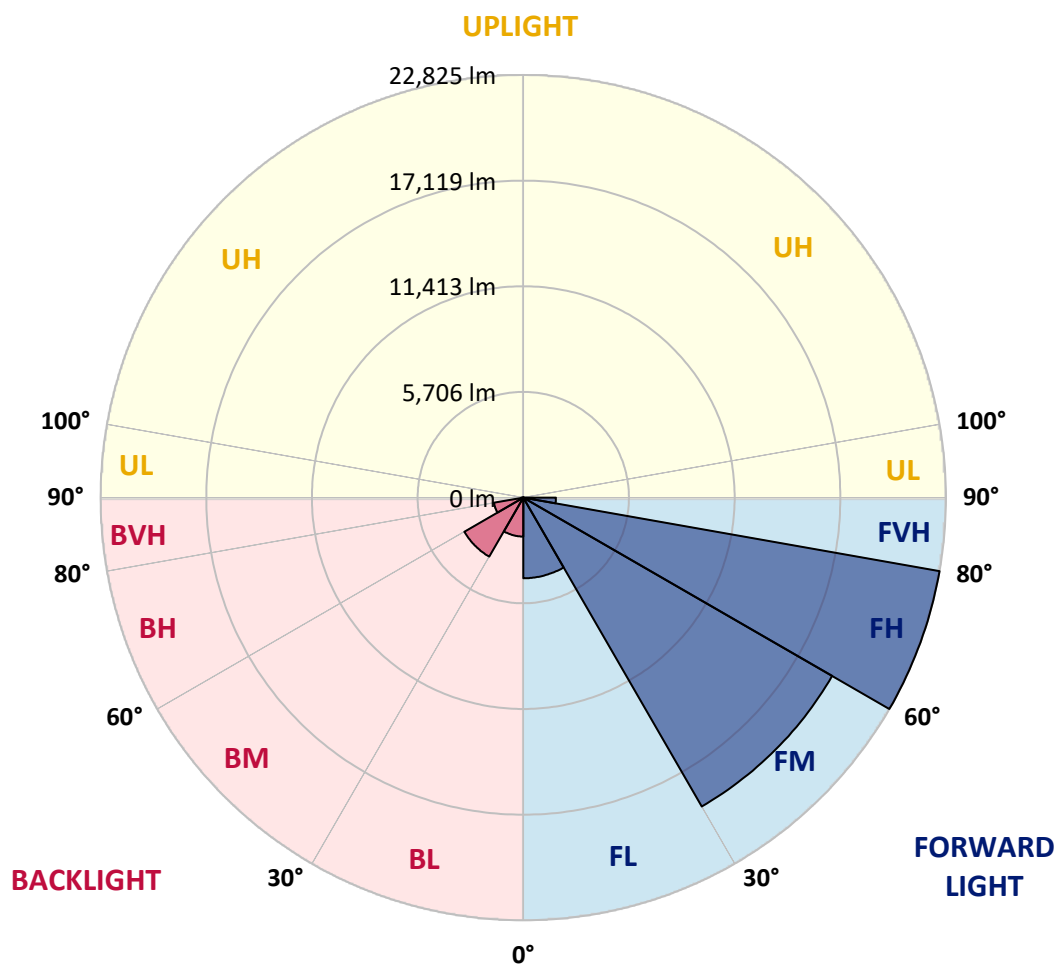
CATALOG NUMBER: GLAN-SA8D-730-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4353.1  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 19257.7 | 34.6      |                         |      |         |
| FH   | (60°-80°)   | 22825.5 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 1763.8  | 3.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2100.6  | 3.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3675.1  | 6.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1609.0  | 2.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 101.1   | 0.2       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P457422

CATALOG NUMBER: GLAN-SA8D-730-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 38°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9783.1  | 9783.1  | 9783.1  | 9783.1  | 9783.1  | 9783.1  | 9783.1  | 9783.1  | 9783.1  | 9783.1  | 9783.1  |
| 2.5°  | 10176.2 | 10226.5 | 10201.3 | 10166.7 | 10144.7 | 10122.7 | 10091.3 | 10000.1 | 9927.7  | 9849.1  | 9726.5  |
| 5°    | 10251.6 | 10283.1 | 10261.1 | 10217.1 | 10166.7 | 10144.7 | 10085.0 | 9965.5  | 9849.1  | 9717.0  | 9534.7  |
| 7.5°  | 10207.6 | 10220.2 | 10195.0 | 10141.6 | 10097.6 | 10056.7 | 9987.5  | 9855.4  | 9713.9  | 9553.5  | 9314.5  |
| 10°   | 10050.4 | 10097.6 | 10097.6 | 10053.5 | 10009.5 | 9987.5  | 9918.3  | 9792.5  | 9663.6  | 9481.2  | 9198.2  |
| 12.5° | 9921.5  | 9971.8  | 10012.6 | 10000.1 | 9996.9  | 9996.9  | 9943.5  | 9849.1  | 9698.2  | 9525.2  | 9188.7  |
| 15°   | 9833.4  | 9893.2  | 9981.2  | 10031.5 | 10063.0 | 10072.4 | 10050.4 | 9968.6  | 9814.5  | 9613.3  | 9226.5  |
| 17.5° | 9814.5  | 9886.9  | 10047.2 | 10157.3 | 10239.1 | 10235.9 | 10229.6 | 10116.4 | 9946.6  | 9739.1  | 9273.6  |
| 20°   | 9899.4  | 9993.8  | 10217.1 | 10390.0 | 10509.5 | 10487.5 | 10452.9 | 10305.1 | 10107.0 | 9874.3  | 9317.7  |
| 22.5° | 10154.2 | 10251.6 | 10496.9 | 10685.6 | 10802.0 | 10802.0 | 10698.2 | 10503.2 | 10292.5 | 10031.5 | 9377.4  |
| 25°   | 10518.9 | 10625.9 | 10886.9 | 11078.7 | 11132.2 | 11091.3 | 10987.5 | 10751.6 | 10509.5 | 10257.9 | 9503.2  |
| 27.5° | 10965.5 | 11094.4 | 11336.6 | 11496.9 | 11481.2 | 11449.8 | 11342.8 | 11041.0 | 10798.8 | 10569.3 | 9717.0  |
| 30°   | 11522.1 | 11616.4 | 11868.0 | 11905.7 | 11849.1 | 11842.8 | 11691.9 | 11390.0 | 11163.6 | 10987.5 | 10022.1 |
| 32.5° | 12047.3 | 12132.2 | 12333.4 | 12349.1 | 12248.5 | 12261.1 | 12119.6 | 11842.8 | 11713.9 | 11651.0 | 10534.7 |
| 35°   | 12603.9 | 12647.9 | 12820.8 | 12802.0 | 12735.9 | 12726.5 | 12669.9 | 12405.7 | 12446.6 | 12559.8 | 11261.1 |
| 37.5° | 13069.3 | 13157.3 | 13254.8 | 13270.5 | 13267.4 | 13298.8 | 13336.6 | 13210.8 | 13446.6 | 13802.0 | 12213.9 |
| 40°   | 13496.9 | 13572.4 | 13717.1 | 13767.4 | 13890.0 | 13952.9 | 14081.9 | 14085.0 | 14629.0 | 15213.9 | 13386.9 |
| 42.5° | 13786.3 | 13915.2 | 14185.6 | 14276.8 | 14575.6 | 14764.3 | 14956.1 | 15160.5 | 15949.8 | 16701.4 | 14770.5 |
| 45°   | 14037.8 | 14207.6 | 14657.3 | 14940.4 | 15346.0 | 15575.6 | 15981.2 | 16408.9 | 17544.1 | 18528.4 | 16176.2 |
| 47.5° | 14418.3 | 14569.3 | 15085.0 | 15585.0 | 16198.2 | 16462.4 | 17069.3 | 17707.7 | 19192.0 | 20270.6 | 17522.1 |
| 50°   | 14946.6 | 15037.8 | 15563.0 | 16377.5 | 17160.5 | 17500.1 | 18302.0 | 19223.4 | 20953.0 | 21990.7 | 18704.5 |
| 52.5° | 15622.7 | 15660.5 | 16078.7 | 17163.6 | 18195.1 | 18616.5 | 19679.4 | 20754.9 | 22493.9 | 23484.4 | 19641.6 |
| 55°   | 16421.5 | 16358.6 | 16685.6 | 17997.0 | 19377.5 | 19927.8 | 21069.3 | 22305.2 | 24226.6 | 24692.0 | 20324.0 |
| 57.5° | 17210.8 | 17113.3 | 17374.3 | 19009.6 | 20836.6 | 21500.1 | 22830.3 | 23902.7 | 25773.8 | 25820.9 | 20802.0 |
| 60°   | 18047.3 | 17975.0 | 18286.3 | 20198.3 | 22625.9 | 23412.1 | 24641.7 | 25559.9 | 27270.6 | 26607.1 | 20877.5 |
| 62.5° | 18905.8 | 18789.4 | 19232.8 | 21534.7 | 24641.7 | 25355.5 | 26547.4 | 27320.9 | 28739.2 | 26899.6 | 20151.1 |
| 65°   | 19739.1 | 19685.7 | 20371.2 | 23122.8 | 26937.3 | 27748.6 | 28905.9 | 29431.0 | 29915.3 | 26459.3 | 18349.2 |
| 67.5° | 20625.9 | 20732.8 | 21827.2 | 25242.3 | 29931.0 | 30949.9 | 32198.3 | 31704.6 | 30251.8 | 24374.4 | 15452.9 |
| 70°   | 21978.1 | 22047.3 | 23739.2 | 28019.1 | 33789.5 | 35019.1 | 35622.9 | 32512.8 | 28629.1 | 20415.2 | 11616.4 |
| 72.5° | 22559.9 | 22864.9 | 25446.7 | 30934.2 | 38173.2 | 38924.8 | 36773.8 | 30710.9 | 23849.2 | 13868.0 | 6103.8  |
| 73°   | 22431.0 | 22795.8 | 25525.3 | 31377.6 | 38516.0 | 39305.3 | 36528.6 | 29783.2 | 22170.0 | 11943.5 | 5232.7  |
| 75°   | 20824.0 | 21273.7 | 24503.3 | 31006.5 | 37849.3 | 37377.6 | 32585.1 | 25383.8 | 14981.2 | 5430.9  | 2383.7  |
| 77.5° | 16430.9 | 16559.9 | 19415.2 | 25037.9 | 29805.2 | 28931.0 | 24387.0 | 15864.9 | 6119.5  | 2018.9  | 1352.2  |
| 80°   | 8242.2  | 8717.0  | 10943.5 | 14342.9 | 19931.0 | 19644.8 | 15393.2 | 7503.2  | 2550.3  | 1185.5  | 896.2   |
| 82.5° | 3965.4  | 4301.9  | 5330.2  | 6993.8  | 11012.7 | 10751.6 | 7622.7  | 4100.7  | 1619.5  | 691.8   | 528.3   |
| 85°   | 2553.5  | 2805.1  | 3393.1  | 3336.5  | 4528.3  | 4323.9  | 3424.6  | 3103.8  | 959.1   | 361.6   | 367.9   |
| 87.5° | 1685.5  | 1845.9  | 2213.9  | 1770.5  | 1647.8  | 1490.6  | 1512.6  | 1748.4  | 188.7   | 138.4   | 50.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P457422

CATALOG NUMBER: GLAN-SA8D-730-U-SL4

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9783.1  | 9783.1  | 9783.1 | 9783.1 | 9783.1 | 9783.1 | 9783.1 | 9783.1 | 9783.1 | 9783.1 | 9783.1 |
| 2.5°  | 9676.2  | 9635.3  | 9500.1 | 9368.0 | 9242.2 | 9122.7 | 9044.1 | 8940.3 | 8871.1 | 8890.0 | 8918.3 |
| 5°    | 9434.0  | 9342.8  | 9103.8 | 8871.1 | 8651.0 | 8390.0 | 8179.3 | 8009.5 | 7880.6 | 7833.4 | 7824.0 |
| 7.5°  | 9179.3  | 9025.2  | 8682.4 | 8283.1 | 7908.9 | 7585.0 | 7210.7 | 7025.2 | 6808.2 | 6732.8 | 6707.6 |
| 10°   | 9025.2  | 8817.7  | 8336.5 | 7779.9 | 7217.0 | 6679.3 | 6273.6 | 5943.4 | 5644.7 | 5588.1 | 5559.8 |
| 12.5° | 8981.2  | 8707.6  | 8059.8 | 7342.8 | 6594.4 | 5934.0 | 5333.4 | 4899.4 | 4610.1 | 4544.1 | 4446.6 |
| 15°   | 8956.0  | 8616.4  | 7801.9 | 6902.6 | 5952.9 | 5147.8 | 4515.8 | 4009.5 | 3745.3 | 3569.2 | 3572.4 |
| 17.5° | 8934.0  | 8512.6  | 7512.6 | 6421.4 | 5399.4 | 4471.7 | 3773.6 | 3317.6 | 3075.5 | 2981.2 | 2971.7 |
| 20°   | 8902.6  | 8390.0  | 7179.3 | 5915.1 | 4767.3 | 3855.4 | 3223.3 | 2883.7 | 2720.1 | 2641.5 | 2638.4 |
| 22.5° | 8890.0  | 8270.5  | 6852.2 | 5399.4 | 4207.6 | 3380.5 | 2858.5 | 2619.5 | 2515.7 | 2462.3 | 2462.3 |
| 25°   | 8921.4  | 8185.6  | 6509.5 | 4908.8 | 3710.7 | 2974.9 | 2606.9 | 2443.4 | 2383.7 | 2355.4 | 2345.9 |
| 27.5° | 9018.9  | 8147.9  | 6169.9 | 4418.3 | 3254.7 | 2698.1 | 2437.1 | 2323.9 | 2279.9 | 2257.9 | 2261.0 |
| 30°   | 9204.5  | 8144.7  | 5836.5 | 3934.0 | 2915.1 | 2487.4 | 2301.9 | 2223.3 | 2188.7 | 2176.1 | 2173.0 |
| 32.5° | 9503.2  | 8213.9  | 5509.5 | 3534.6 | 2628.9 | 2311.3 | 2176.1 | 2119.5 | 2103.8 | 2094.4 | 2091.2 |
| 35°   | 10009.5 | 8408.9  | 5185.6 | 3169.8 | 2408.8 | 2154.1 | 2056.6 | 2028.3 | 2006.3 | 2015.7 | 2018.9 |
| 37.5° | 10691.9 | 8745.3  | 4877.4 | 2883.7 | 2242.2 | 2037.7 | 1956.0 | 1930.8 | 1918.3 | 1927.7 | 1937.1 |
| 40°   | 11607.0 | 9229.6  | 4619.5 | 2654.1 | 2122.7 | 1940.3 | 1867.9 | 1845.9 | 1833.3 | 1849.1 | 1852.2 |
| 42.5° | 12616.4 | 9789.4  | 4405.7 | 2474.9 | 2025.2 | 1858.5 | 1789.3 | 1764.2 | 1754.7 | 1764.2 | 1767.3 |
| 45°   | 13654.2 | 10440.3 | 4295.6 | 2345.9 | 1943.4 | 1798.8 | 1726.4 | 1698.1 | 1676.1 | 1669.8 | 1679.3 |
| 47.5° | 14676.2 | 11006.4 | 4292.5 | 2267.3 | 1877.4 | 1745.3 | 1666.7 | 1635.2 | 1606.9 | 1591.2 | 1588.1 |
| 50°   | 15509.5 | 11456.1 | 4368.0 | 2232.7 | 1820.8 | 1685.5 | 1606.9 | 1575.5 | 1537.7 | 1506.3 | 1512.6 |
| 52.5° | 16138.5 | 11748.5 | 4402.5 | 2217.0 | 1789.3 | 1622.7 | 1544.0 | 1515.7 | 1471.7 | 1430.8 | 1430.8 |
| 55°   | 16544.1 | 11817.7 | 4317.6 | 2201.3 | 1764.2 | 1556.6 | 1471.7 | 1446.6 | 1402.5 | 1361.6 | 1361.6 |
| 57.5° | 16682.5 | 11603.9 | 4012.6 | 2163.5 | 1739.0 | 1500.0 | 1399.4 | 1377.4 | 1342.8 | 1301.9 | 1295.6 |
| 60°   | 16361.7 | 10880.6 | 3478.0 | 2050.3 | 1688.7 | 1440.3 | 1320.8 | 1311.3 | 1298.8 | 1264.2 | 1261.0 |
| 62.5° | 15125.9 | 9346.0  | 2896.2 | 1902.5 | 1603.8 | 1377.4 | 1248.4 | 1264.2 | 1273.6 | 1254.7 | 1251.6 |
| 65°   | 13069.3 | 7588.1  | 2474.9 | 1698.1 | 1490.6 | 1289.3 | 1169.8 | 1210.7 | 1235.9 | 1235.9 | 1229.6 |
| 67.5° | 10600.7 | 5827.1  | 2084.9 | 1522.0 | 1349.1 | 1169.8 | 1081.8 | 1113.2 | 1132.1 | 1125.8 | 1141.5 |
| 70°   | 7534.6  | 3946.6  | 1698.1 | 1320.8 | 1169.8 | 1034.6 | 968.6  | 968.6  | 956.0  | 949.7  | 949.7  |
| 72.5° | 3654.1  | 2254.7  | 1377.4 | 1103.8 | 996.9  | 883.7  | 830.2  | 808.2  | 783.0  | 779.9  | 764.2  |
| 73°   | 3053.5  | 2022.0  | 1314.5 | 1062.9 | 956.0  | 861.6  | 801.9  | 767.3  | 751.6  | 739.0  | 735.9  |
| 75°   | 1858.5  | 1534.6  | 1097.5 | 896.2  | 814.5  | 742.1  | 688.7  | 657.2  | 641.5  | 632.1  | 628.9  |
| 77.5° | 1223.3  | 1144.7  | 852.2  | 685.5  | 622.6  | 578.6  | 556.6  | 525.2  | 515.7  | 503.1  | 503.1  |
| 80°   | 912.0   | 874.2   | 610.1  | 484.3  | 446.5  | 408.8  | 402.5  | 396.2  | 371.1  | 355.3  | 349.1  |
| 82.5° | 588.1   | 622.6   | 415.1  | 323.9  | 283.0  | 251.6  | 254.7  | 264.2  | 239.0  | 217.0  | 210.7  |
| 85°   | 418.2   | 449.7   | 251.6  | 147.8  | 119.5  | 103.8  | 116.4  | 103.8  | 106.9  | 84.9   | 69.2   |
| 87.5° | 69.2    | 119.5   | 44.0   | 18.9   | 9.4    | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)